User Manual

Cockpit

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1	2011-01-05	First edition
2	2011-08-01	New functions: Fonts, backup, backlight, touch calibration
3	2014-09-30	Cockpit descriptions dependent on the operating system

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1 Important Notes

1.1 Symbols

The symbols in this manual are used to draw your attention on notes and dangers.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER
This indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING
This indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION
This indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE
This symbol together with the signal word NOTE and the accompanying text alert the reader to a situation which may cause damage or malfunction to the device, hardware/software, or surrounding property.

This symbol and the accompanying text provide the reader with additional information or refer to detailed sources of information.

1.2 Safety Notes

- Read this manual carefully before using the operating device. Keep this manual in a place where it is always accessible to all users.
- Proper transportation, handling and storage, placement and installation of this product are prerequisites for its subsequent flawless and safe operation.
- This user manual contains the most important information for the safe operation of the device.
- The user manual, in particular the safety notes, must be observed by all personnel working with the device.
- Observe the accident prevention rules and regulations that apply to the operating site.
- Installation and operation must only be carried out by qualified and trained personnel.

1.3 Intended Use

– The device is designed for use in the industry.
– The device is state-of-the art and has been built to the latest standard safety requirements. However, dangerous situations or damage to the machine itself or other property can arise from the use of this device.
– The device fulfills the requirements of the EMC directives and harmonized European standards. Any modifications to the system can influence the EMC behavior.

1.4 Target Group

The use of products described in this manual is oriented exclusively to:

– Qualified electricians or persons instructed by them, who are familiar with applicable standards and other regulations regarding electrical engineering and, in particular, the relevant safety concepts.
– Qualified application programmers and software engineers, who are familiar with the safety concepts of automation technology and applicable standards.

2 Cockpit Variants

The range of the cockpit functions depends on the operating system of the operating device. You find the function range as well as the description of the individual functions in the appropriate chapter with the name of the operating system of your operating device. The start behaviour described below is same with all operating systems.

The operating device allows you - by starting the cockpit during the startup phase - to make changes to the device configuration.

Start cockpit at system startup

To start the cockpit, do the following:

1. Wait during the startup phase until the following dialog is displayed:

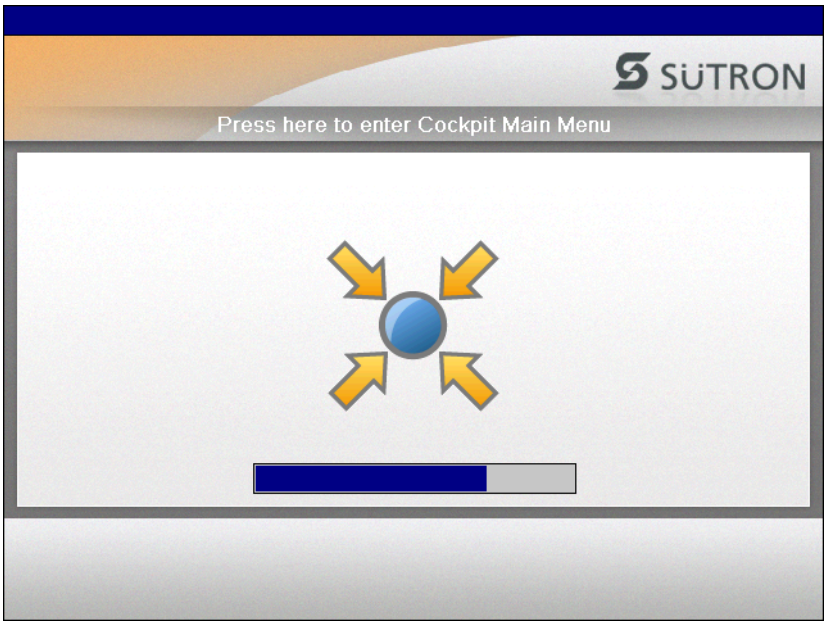


Figure 2-1 Cockpit startup phase

2. Press the button to start the cockpit before the progress bar is down.

You can customize the language of the cockpit interface at the language menu item.

3. Press the button **Language Selection**.
4. Select the desired language.
5. Confirm your selection with the green check.

Using desktop icon to start cockpit

You can start the cockpit via the desktop icon at already started operating devices with active desktop:

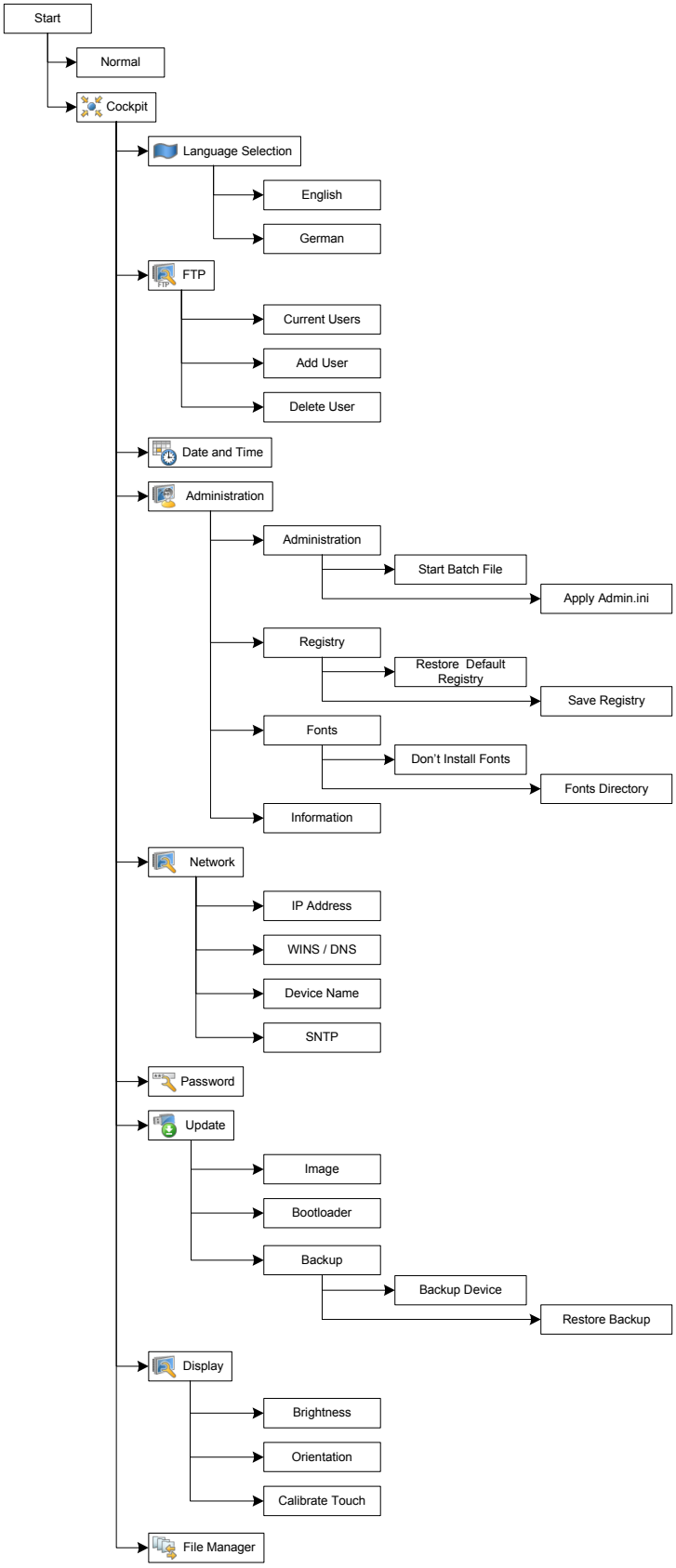
1. Briefly press twice on the desktop icon.
2. Press the button to start the cockpit before the progress bar is down.

You can customize the language of the cockpit interface at the language menu item.

3. Press the button **Language Selection**.
4. Select the desired language.
5. Confirm your selection with the green check.

2.1 Windows CE

2.1.1 Menu Structure



2.1.2 Settings and Functions

Some settings are password-protected. The default password is "+-+-".

2.1.2.1 Language Selection

You can customize the language of the cockpit interface at the language menu item.

1. Select the desired language.
2. Confirm your selection with the green check.

2.1.2.2 FTP

You can configure FTP access to the operating device via the **FTP** menu.

Current Users

The list box displays all existing FTP users.

Add User

1. Enter a **user name** and **password** for the new FTP user.
2. Press the **Add User** button.

To change the password of an existing user, follow these steps:

1. Select the user name in the list box.
2. Enter the new password.
3. Press the **Add User** button to confirm the password.

Delete User

1. Select a user name in the **Current Users** list.
2. Press the **Delete User** button to delete the selected user.

Allow anonymous

This option allows FTP access with the user name and password „Anonymous“:

1. Select the **Allow anonymous** option.
2. Confirm your selection with the green check.
3. Restart the operating device for the changes to take effect.

2.1.2.3 Date and Time

You set up date, time and time zone via the **Date and Time** menu item.

2.1.2.4 Administration

The **Administration** menu allows you to run the Project.bat or Admin.ini and backup and restore the registry. In addition, you see device information.

Administration

Start Batch File

1. Open your FTP program or the Windows Explorer and enter the ip address of the operating device (example: ftp://149.208.160.232).
2. Download an existing file „project.bat“ from the root directory on your local file system or create a new file with this name.
3. Edit the file „project.bat“ with your favorite editor (e.g. „Notepad“) and add the following content:

```
\FlashDrv\MyFolder\MyProgram.exe -parameter
```

With the appropriate paths, different memory areas of the operating device can be accessed. Some paths are dependent on the product line of the operating device:

Product line(s)	Memory type	Path
All	USB stick	\HardDisk\
S Line, E Line, M Line, P Line	Internal	\FlashDrv\
E Line, M Line, P Line	Memory card	\StorageCard\

4. Save the file.
5. Copy the file „project.bat“ with the FTP program or the Windows Explorer into the root directory of the operating device.

6. Restart the operating device and press the cockpit button during startup.
7. Press the button **Administration**.
8. Press **Administration** to activate the area.
9. Press the **Start Batch File** button.

Your application will be started immediately.

Apply Admin.ini

1. Edit the file „Admin.ini“ in the root directory of your USB stick with your favorite editor (e.g. „Notepad“).

If the „Admin.ini“ does not exist, create the file.

2. Add the desired functions (see table) to the file or edit an existing entry.
3. Save the file.
4. Insert a USB stick into the female connector of the operating device.

5. Press the cockpit button during startup of the operating device.
6. Press the button **Administration**.
7. Press **Administration** to activate the area.
8. Press the **Apply Admin.ini** button.

The activated parameters are confirmed with a dialog.

9. Confirm this and the following dialogs with the OK button to complete the administration.
10. Remove the USB stick and restart the operating device.

Observe upper and lower case for all entries!

Possible contents for the Admin.ini file:

Start=explorer.exe	Starts the explorer
Start=MyProgram.exe	Starts the application MyProgram.exe Initial directory is windows. Use the following syntax to start an application on the usb stick: Start=\\\\HardDisk\\MyProgram.exe Use multiple entries to start several applications.
Registry=Default	Destroys the current registry and activates the default registry of the image. The change becomes effective on the next device reboot.
Lock=On	The button to start the cockpit is locked. The button is only active when a USB stick with the file Admin.ini is detected.
Lock=Off	The button to start the cockpit is activated.
Mode=Development	The shell has full functionality. The change becomes effective on the next device reboot.
Mode=Standard	The Shell is restricted: No task bar and task switch available. Desktop contains the cockpit icon only. The change becomes effective on the next device reboot.
DeviceName=MyName	Defines the device name of the operating device
;DeviceName=MyName	Comment, no impact

Registry

Restore Default Registry

Destroys the current registry and activates the default registry of the image.

Save Registry

The registry is saved completely.

Fonts

Install Fonts

The fonts in the default directory or user-specific directory will be installed automatically when you start the operating device.

Depending on the number and size of fonts, the system start-up take correspondingly more time.

Fonts Directory

The fonts in this directory are used if the „Install Fonts“ option is active. If no directory is given the appropriate default directory is used:

Product line(s)	Memory type	Default directory
S Line, E Line	Internal	\FlashDrv\Fonts\
M Line, P Line	Memory card	\StorageCard\Fonts\

Information

The following informations are displayed:

- Device type,
- Serial number,
- Software bundle
- Image name,
- Image date,
- Operating system,
- Operating system version.

2.1.2.5 Network

You can configure the network settings with the **Network** menu item.

IP Address

Use Dynamic IP (DHCP)

The network configuration is automatically obtained from the DHCP server.

Confirm your selection with the green check.

Use Static IP

Manually assign an ip address, subnet mask and gateway of the operating device.

Confirm your selection with the green check.

WINS / DNS

Optionally, enter the addresses for the WINS / DNS server.

Confirm your selection with the green check.

The input fields are only active when you set up a static ip.

Device Name

You can define a device name with a maximum of 15 characters. Via network, the device can be accessed with the device name instead of the ip address.

Confirm your selection with the green check.

SNTP

Enter the address of an intranet or internet time server. Define an interval in milliseconds for time synchronization.

Confirm your selection with the green check.

2.1.2.6 Password

The menu item **Password** allows you to protect certain menu items in the cockpit with a password.

Current password

1. Enter a password for the protected menu items.

2. Confirm your selection with the green check.

Password protected

1. Select the menu items which shall get a password protection.

2. Confirm your selection with the green check.

2.1.2.7 Update

You can update the image and the bootloader with the menu item **Update**. The image includes the operating system and product-specific data. The bootloader starts the operating system and product-specific functions.

Image

Start update

1. Press the **Open** button.
2. Navigate with the dialog into the folder with the image file.
3. Select the image file.
4. Press the **OK** button.
5. Press the **Start Update** button.
6. Press the **OK** button at the dialog to start the update.

NOTICE
Please do not interrupt the power supply during the process. After canceling an process, the operating device may not be operational anymore.

The successful update will be confirmed with a dialog.

7. Restart the operating device.

Bootloader

Start update

1. Press the **Open** button.
2. Navigate with the dialog into the folder with the bootloader file.
3. Select the bootloader file.
4. Press the **OK** button.
5. Press the **Start Update** button.
6. Press the **OK** button at the dialog to start the update.

NOTICE
Do not interrupt the power supply during the process. After canceling an process, the operating device may not be operational anymore.

The successful update will be confirmed with a dialog.

7. Restart the operating device.

Backup

Backup Device

1. Insert a USB stick into the female connector of the operating device.
2. Press the button **Backup Device**.

The files are copied to the directory "Backup" on the USB stick. A dialog lets you know if there is already a directory „Backup“ with data on the USB stick. If you confirm this dialog the existing backup is overwritten.

The successful backup will be confirmed with a dialog.

Restore Backup

NOTICE
When restoring the backup all data in the flash memory of the operating device will be deleted.

The process of backup and restore all settings is possible only with identical device types.

1. Insert a USB stick into the female connector of the operating device.

2. Press the **Restore Backup** button.

NOTICE
Do not interrupt the power supply during the process. After canceling an process, the operating device may not be operational anymore.

The backup files are copied from the directory "Backup" to the flash memory of the operating device.

The successful update will be confirmed with a dialog.

3. Restart the operating device.

2.1.2.8 Display

You can carry out settings such as brightness and orientation of the display and the calibration of the touch via the **Display** menu item.

Brightness

1. Adjust the brightness using the slider or the arrow symbols.

2. Confirm your selection with the green check.

Dim Backlight

The brightness of the backlight is reduced after the defined time (minutes). The value „0“ disables the function.

Switch Off Backlight

The brightness of the backlight is switched off after the defined time (minutes). The value „0“ disables the function.

Orientation

1. Turn the orientation using the buttons **Turn left** and **Turn right** to the desired position.

2. Confirm your selection with the green check.

Depending on device type, the new orientation is accepted immediately or after a reboot of the operating device.

3. Press the **OK** button.

Calibrate Touch

1. Press the **Recalibrate** button.

Depending on device type the calibration is automatically started immediately or after a reboot of the operating device.

2. Press the displayed marks to calibrate the touch.

2.1.2.9 File Manager

Use the file manager to copy files and directories between the storage medias (USB stick <-> device memory). You can also delete files and directories.

Copy file(s) / folder(s)

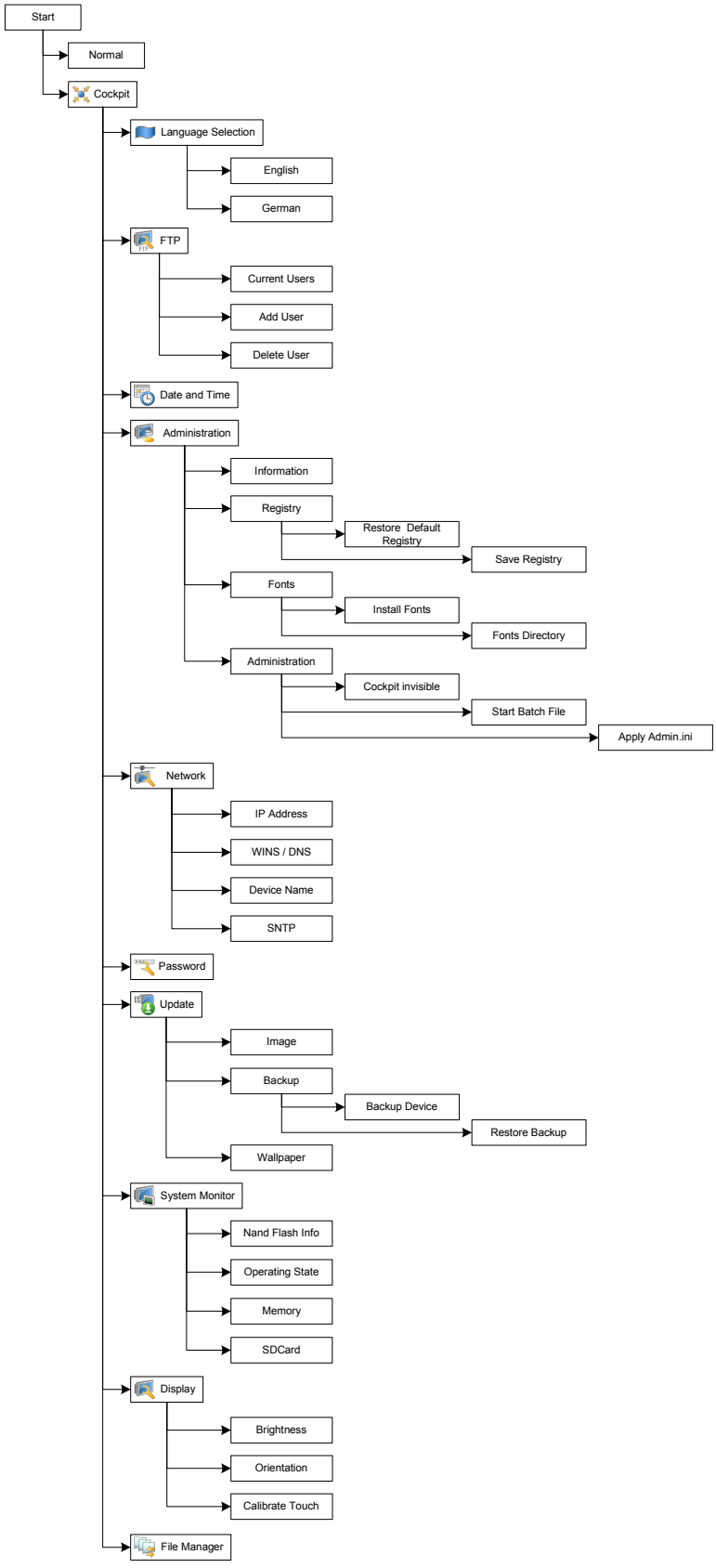
1. Select one or multiple files / folders.
2. Press the **<<** button to copy the data to the USB stick or **>>** to copy the data on the device memory.

Delete file(s) / folder(s)

1. Select one or multiple file(s) / folder(s).
2. Press the Delete button to delete the data from the USB stick or the device memory.

2.2 Windows Embedded Compact 7

2.2.1 Menu Structure



2.2.2 Settings and Functions

Some settings are password-protected. The default password is "+-+-".

2.2.2.1 Language Selection

You can customize the language of the cockpit interface at the language menu item.

1. Select the desired language.
2. Confirm your selection with the green check.

2.2.2.2 FTP

You can configure FTP access to the operating device via the **FTP** menu.

Current Users

The list box displays all existing FTP users.

Add User

1. Enter a **user name** and **password** for the new FTP user.
2. Press the **Add User** button.

To change the password of an existing user, follow these steps:

1. Select the user name in the list box.
2. Enter the new password.
3. Press the **Add User** button to confirm the password.

Delete User

1. Select a user name in the **Current Users** list.
2. Press the **Delete User** button to delete the selected user.

Allow anonymous

This option allows FTP access with the user name and password „Anonymous“:

1. Select the **Allow anonymous** option.
2. Confirm your selection with the green check.
3. Restart the operating device for the changes to take effect.

2.2.2.3 Date and Time

You set up date, time and time zone via the **Date and Time** menu item.

2.2.2.4 Administration

The **Administration** menu allows you to run the Project.bat or Admin.ini and backup and restore the registry. In addition, you see device information.

Administration

Cockpit invisible

The Cokpit is no longer displayed at startup after you enable this option. To make the cockpit visible again, proceed as follows:

1. Create a file - without content - with the name "Launch.me" on the root directory of a USB stick.
2. Insert the USB stick into the female connector of the operating device.
3. Press the button to start the cockpit before the progress bar is down.
4. Open the menu item **Administration**.
5. Disable the option **Cockpit invisible**.
6. Confirm your selection with the green check.

Start Batch File

1. Open your FTP program or the Windows Explorer and enter the ip address of the operating device (example: ftp://149.208.160.232).
2. Download an existing file „project.bat“ from the root directory on your local file system or create a new file with this name.
3. Edit the file „project.bat“ with your favorite editor (e.g. „Notepad“) and add the following content:

```
\FlashDrv\MyFolder\MyProgram.exe -parameter
```

With the appropriate paths, different memory areas of the operating device can be accessed. Some paths are dependent on the product line of the operating device:

Product line(s)	Memory type	Path
All	USB stick	\HardDisk\
S Line, E Line, M Line, P Line	Internal	\FlashDrv\
E Line, M Line, P Line	Memory card	\StorageCard\

4. Save the file.
5. Copy the file „project.bat“ with the FTP program or the Windows Explorer into the root directory of the operating device.
6. Restart the operating device and press the cockpit button during startup.
7. Press the button **Administration**.
8. Press **Administration** to activate the area.
9. Press the **Start Batch File** button.

Your application will be started immediately.

Apply Admin.ini

1. Edit the file „Admin.ini“ in the root directory of your USB stick with your favorite editor (e.g. „Notepad“).

If the „Admin.ini“ does not exist, create the file.

2. Add the desired functions (see table) to the file or edit an existing entry.
3. Save the file.
4. Insert a USB stick into the female connector of the operating device.
5. Press the cockpit button during startup of the operating device.

6. Press the button **Administration**.
7. Press **Administration** to activate the area.
8. Press the **Apply Admin.ini** button.

The activated parameters are confirmed with a dialog.

9. Confirm this and the following dialogs with the OK button to complete the administration.
10. Remove the USB stick and restart the operating device.

Observe upper and lower case for all entries!

Possible contents for the Admin.ini file:

Start=explorer.exe	Starts the explorer
Start=MyProgram.exe	Starts the application MyProgram.exe Initial directory is windows. Use the following syntax to start an application on the usb stick: Start=\\\\HardDisk\\MyProgram.exe Use multiple entries to start several applications.
Registry=Default	Destroys the current registry and activates the default registry of the image. The change becomes effective on the next device reboot.
Lock=On	The button to start the cockpit is locked. The button is only active when a USB stick with the file Admin.ini is detected.
Lock=Off	The button to start the cockpit is activated.
Mode=Development	The shell has full functionality. The change becomes effective on the next device reboot.
Mode=Standard	The Shell is restricted: No task bar and task switch available. Desktop contains the cockpit icon only. The change becomes effective on the next device reboot.
DeviceName=MyName	Defines the device name of the operating device
;DeviceName=MyName	Comment, no impact

Registry

Restore Default Registry

Destroys the current registry and activates the default registry of the image.

Save Registry

The registry is saved completely.

Fonts

Install Fonts

The fonts in the default directory or user-specific directory will be installed automatically when you start the operating device.

Depending on the number and size of fonts, the system start-up take correspondingly more time.

Fonts Directory

The fonts in this directory are used if the „Install Fonts“ option is active. If no directory is given the appropriate default directory is used:

Product line(s)	Memory type	Default directory
S Line, E Line	Internal	\FlashDrv\Fonts\
M Line, P Line	Memory card	\StorageCard\Fonts\

Information

The following informations are displayed:

- Device type,
- Serial number,
- Software bundle
- Image name,
- Image date,
- Operating system,
- Operating system version.

2.2.2.5 Network

You can configure the network settings with the **Network** menu item.

IP Address

Use Dynamic IP (DHCP)

The network configuration is automatically obtained from the DHCP server.

Confirm your selection with the green check.

Use Static IP

Manually assign an ip address, subnet mask and gateway of the operating device.

Confirm your selection with the green check.

WINS / DNS

Optionally, enter the addresses for the WINS / DNS server.

Confirm your selection with the green check.

The input fields are only active when you set up a static ip.

Device Name

You can define a device name with a maximum of 15 characters. Via network, the device can be accessed with the device name instead of the ip address.

Confirm your selection with the green check.

SNTP

Enter the address of an intranet or internet time server. Define an interval in milliseconds for time synchronization.

Confirm your selection with the green check.

2.2.2.6 Password

The menu item **Password** allows you to protect certain menu items in the cockpit with a password.

Current password

1. Enter a password for the protected menu items.
2. Confirm your selection with the green check.

Password protected

1. Select the menu items which shall get a password protection.
2. Confirm your selection with the green check.

2.2.2.7 Update

With the menu option update you can update different components (image, bootloader, configuration, FlashDrv contents and splash screen).

– The image includes the operating system and product-specific data
– The bootloader starts the operating system and product-specific functions
– The internal memory is provided in the „FlashDrv “ folder
– A splash screen is shown at the startup of the operating device

The components are provided in a zip file or can be updated individually. FlashDrv contents can be updated only with a zip file. The „FlashDrv “ folder must be available in the zip file for that.

Image

Start Update

NOTICE
On update with a zip file all data in the flash memory of the operating device are deleted, if the zip file contains the folder „FlashDrv “.

1. Press the **Open** button.
2. Navigate in the dialogue to the folder with the zip file or a splash screen graphic in the bitmap format.
3. Select the file.
4. Press the **OK** button.
5. Press the **Start Update** button.
6. Press the **OK** button at the dialog to start the update.

NOTICE
Do not interrupt the power supply during the process. After canceling an process, the operating device may not be operational anymore.

The update is carried out automatically. This procedure can take several minutes.

The successful update will be confirmed with a dialog.

7. Restart the operating device.

Backup

Backup Device

1. Insert a USB stick into the female connector of the operating device.
2. Press the button **Backup Device**.

The files are copied to the directory "Backup" on the USB stick. A dialog lets you know if there is already a directory „Backup“ with data on the USB stick. If you confirm this dialog the existing backup is overwritten.

The successful backup will be confirmed with a dialog.

Restore Backup

NOTICE
When restoring the backup all data in the flash memory of the operating device will be deleted.

The process of backup and restore all settings is possible only with identical device types.

1. Insert a USB stick into the female connector of the operating device.
2. Press the **Restore Backup** button.

NOTICE
Do not interrupt the power supply during the process. After canceling an process, the operating device may not be operational anymore.

The backup files are copied from the directory "Backup" to the flash memory of the operating device.

The successful update will be confirmed with a dialog.

3. Restart the operating device.

Wallpaper

Browse

You can set a custom background image as follows:

1. Press the **Open** button.
2. Navigate with the dialog box to the folder with the file in the BMP, PNG, JPG or GIF format.
3. Select the file.
4. Press the **OK** button.

You have 10 seconds to confirm the new background image. If the time has passed without confirmation the selected image is not accepted.

5. Confirm the dialog with the green check.

The new background image is applied immediately.

Clear

You can delete the background image as follows:

1. Press the **Clear** button.

You have 10 seconds to confirm the clear operation. If the time has passed without confirmation the selected image is not deleted.

2. Confirm the dialog with the green check.

The background image will be removed immediately.

2.2.2.8 Display

You can carry out settings such as brightness and orientation of the display and the calibration of the touch via the **Display** menu item.

Brightness

1. Adjust the brightness using the slider or the arrow symbols.
2. Confirm your selection with the green check.

Dim Backlight

The brightness of the backlight is reduced after the defined time (minutes). The value „0“ disables the function.

Switch Off Backlight

The brightness of the backlight is switched off after the defined time (minutes). The value „0“ disables the function.

Brightness

1. Adjust the brightness using the slider or the arrow symbols.
2. Confirm your selection with the green check.

Brightness Steps

The brightness of the backlight can be adjusted time controlled in 3 steps. After the defined time (minutes) the brightness is reduced to the defined value.

The timeout value "0" disables the function.

Screensaver

The backlight is switched off after the defined time (minutes) and a default graphic is displayed on the display at changing positions.

The standard graphic can be replaced by a customized graphic in the bitmap format. Save the graphic in the folder „\FlashDrv\Screensaver\“ with the file name „Screensaver.bmp“ for this.

The timeout value "0" disables the function.

Orientation

1. Turn the orientation using the buttons **Turn left** and **Turn right** to the desired position.
2. Confirm your selection with the green check.

Depending on device type, the new orientation is accepted immediately or after a reboot of the operating device.

3. Press the **OK** button.

Calibrate Touch

1. Press the **Recalibrate** button.

Depending on device type the calibration is automatically started immediately or after a reboot of the operating device.

2. Press the displayed marks to calibrate the touch.

2.2.2.9 File Manager

Use the file manager to copy files and directories between the storage medias (USB stick <-> device memory). You can also delete files and directories.

Copy file(s) / folder(s)

1. Select one or multiple files / folders.
2. Press the **<<** button to copy the data to the USB stick or **>>** to copy the data on the device memory.

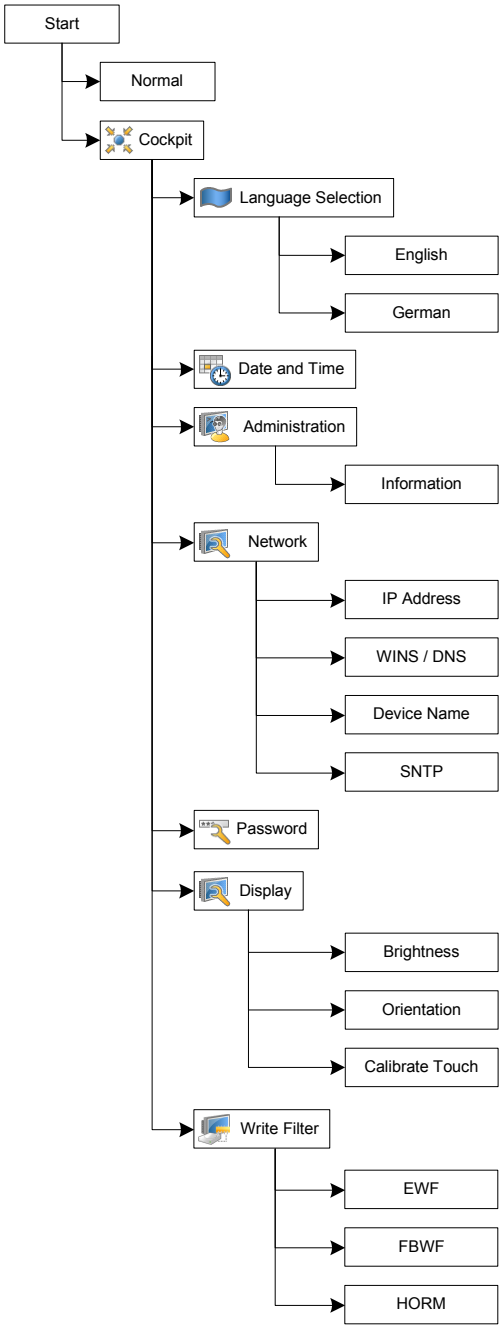
Delete file(s) / folder(s)

1. Select one or multiple file(s) / folder(s).

2. Press the Delete button to delete the data from the USB stick or the device memory.

2.3 Windows Embedded Standard 7

2.3.1 Menu Structure



2.3.2 Settings and Functions

Some settings are password-protected. The default password is "+-+-".

2.3.2.1 Language Selection

You can customize the language of the cockpit interface at the language menu item.

1. Select the desired language.
2. Confirm your selection with the green check.

2.3.2.2 Date and Time

You set up date, time and time zone via the **Date and Time** menu item.

2.3.2.3 Administration

The **Administration** menu shows device information.

Information

The following informations are displayed:

- Device type
- Hardware version,
- Serial number,
- Image name,
- Image date,
- Operating system.

2.3.2.4 Network

You can configure the network settings with the **Network** menu item.

IP Address

Use Dynamic IP (DHCP)

The network configuration is automatically obtained from the DHCP server.

Confirm your selection with the green check.

Use Static IP

Manually assign an ip address, subnet mask and gateway of the operating device.

Confirm your selection with the green check.

WINS / DNS

Optionally, enter the addresses for the WINS / DNS server.

Confirm your selection with the green check.

The input fields are only active when you set up a static ip.

Device Name

You can define a device name with a maximum of 15 characters. Via network, the device can be accessed with the device name instead of the ip address.

Confirm your selection with the green check.

SNTP

Enter the address of an intranet or internet time server. Define an interval in milliseconds for time synchronization.

Confirm your selection with the green check.

2.3.2.5 Password

The menu item **Password** allows you to protect certain menu items in the cockpit with a password.

Current password

1. Enter a password for the protected menu items.
2. Confirm your selection with the green check.

Password protected

1. Select the menu items which shall get a password protection.
2. Confirm your selection with the green check.

2.3.2.6 Display

This category offers the following functions:

– Brightness and orientation of the display
– Calibration of the touch

Brightness

1. Adjust the brightness using the slider or the arrow symbols.
2. Confirm your selection with the green check.

Orientation

1. Turn the orientation using the buttons **Turn left** and **Turn right** to the desired position.
2. Confirm your selection with the green check.

Depending on device type, the new orientation is accepted immediately or after a reboot of the operating device.

3. Press the **OK** button.

Calibrate Touch

1. Press the **Recalibrate** button.

Depending on device type the calibration is automatically started immediately or after a reboot of the operating device.

2. Press the displayed marks to calibrate the touch.

2.3.2.7 Write Filter

This category offers the following functions:

– Enhanced write filter (EWF)
– File based write filter (FBWF)
– Hibernate once, resume many (HORM)

EWF

The enhanced write filter (EWF) protects your system from write access and instead writes the data to the main memory.

NOTICE
With enabled write protection, all data in the main memory of the operating device are lost after a restart.

Enable EWF

1. Press the **Enable EWF** button.
2. Confirm your selection with the green check.
3. Restart the operating device for the changes to take effect.

Disable EWF

1. Press the **Disable EWF** button.
2. Confirm your selection with the green check.
3. Restart the operating device for the changes to take effect.

FBWF

The file based write filter (FBWF) protects your system from write access and instead writes the data to the main memory. The selected folders are not protected.

NOTICE
With enabled write protection, all data in the main memory of the operating device are lost after a restart.

Enable FBWF

1. Press the **Enable FBWF** button.
2. Confirm your selection with the green check.
3. Restart the operating device for the changes to take effect.

Disable FBWF

1. Press the **Disable FBWF** button.
2. Confirm your selection with the green check.
3. Restart the operating device for the changes to take effect.

Exclude Folders

1. Select the folders that should be not write protected.
2. Press the **Exclude Folders** button.
3. Confirm your selection with the green check.
4. Restart the operating device for the changes to take effect.

HORM

The current state of the system can be saved and restored automatically at every startup. The boot process is accelerated by this function.

Enable HORM

To use HORM, EWF must be active.

1. Press the **Enable HORM** button.
2. Press the **Hibernate System** button to save the current state.

Disable HORM

1. Press the **Disable HORM** button.
2. Confirm your selection with the green check.
3. Restart the operating device for the changes to take effect.

Hibernate System

1. Press the **Hibernate System** button.

The operating device is set to hibernation. Thereby the current state of the system is saved and restored automatically at every startup.

3 User-defined Interface / Content

You can customize the user interface of the cockpit to your needs if necessary. Among other things the following elements can be customized:

– Background image
– Start image
– Navigation images
– Menu images
– Texts of the menu items

3.1 Customize Main Menu / Menu Items

Example

In the following example, the appearance of the main menu and the menu item display is customized. The background images, navigation buttons and the icon for the menu item display is replaced with custom images as well as text replaces of the display menu.

Figure 3-1 Example: Standard / customized cockpit

To create a custom cockpit as in the example, do the following:

1. Create a file with the name „user.xml“ with your favorite editor (e.g. „Notepad“).
2. Create this basic structure:

```
<?xml version="1.0" encoding="UTF-8" ?>
<Cockpit>
   <!-- The Main Programm -->
   <Main>
   </Main>
   <!-- List of Controls -->
   <Controls>
      <control_list>
      </control_list>
   </Controls>
</Cockpit>
```

Within the **<Main>** tags you can use special XML tags to customize the user interface of the cockpit main window. In the **<Controls>** tag you can customize the look of the controls and integrate your own controls.

3. Expand the XML file within the **Main** tag with the desired options.

In this example, some standard images and standard values are replaced by customized:

```
<backgroundImage>\FlashDrv\background_grey.png</backgroundImage>
<button_left>\FlashDrv\nav_left_blue.png</button_left>
<button_right>\FlashDrv\nav_right_blue.png</button_right>
<button_exit>\FlashDrv\exit.png</button_exit>
<password>123456</password>
<passwordIcon>\FlashDrv\key.png</passwordIcon>
<background>true</background>
```

For a complete list of possible XML tags with a description see table 3-1 „Main XML tags“.

4. Expand the XML file within the **control_list** tag.

In this example, the default control of the menu item display will be replaced with custom text, images and default values:

```
<item>
   <name>Display_Settings</name>
   <label>Brightness / Orientation | Helligkeit / Ausrichtung</label>
   <icon>\FlashDrv\monitor.png</icon>
   <control>\Windows\DisplaySettings.dll</control>
   <backgroundImage>\FlashDrv\background_grey.png</backgroundImage>
   <passwordProtected>true</passwordProtected>
   <background>false</background>
</item>
```

For a complete list of possible XML tags with a description see table 3-2 „Controls XML tags“.
Other standard controls can also be configured. For a list of the names (name) see table 3-3 „Names of the controls“.

NOTICE
The tags name, label, icon, control, backgroundImage, passwordProtected and background must be always available for controls. Otherwise this control cannot be displayed.

5. Open your FTP program or the Windows Explorer and enter the ip address of the operating device (example: ftp://149.208.160.232).
6. Copy the file „user.xml“ with the FTP program into the root directory of the operating device.
7. Copy the custom images also in the root directory of the operating device.
8. Start the cockpit.

Source text:

The complete source code of the example should now look like this:

```
<?xml version="1.0" encoding="UTF-8" ?>
<Cockpit>
   <!-- The Main Programm -->
   <Main>
      <backgroundImage>\FlashDrv\background_grey.png</backgroundIm-
      age><button_left>\FlashDrv\nav_left_blue.png</
      button_left><button_right>\FlashDrv\nav_right_blue.png</
      button_right><button_exit>\FlashDrv\exit.png</button_exit><pass-
      word>123456</password><passwordIcon>\FlashDrv\key.png</passwordI-
      con><background>true</background>
   </Main>
   <!-- List of Controls -->
   <Controls>
      <control_list>
         <item>
            <name>Display_Settings</name><label>Brightness / Orientation |
            Helligkeit / Ausrichtung</label>          <icon>\FlashDrv\mon-
            itor.png</icon><control>\Windows\DisplaySettings.dll</con-
            trol><backgroundImage>\FlashDrv\background_grey.png</
            backgroundImage><passwordProtected>true</passwordProtect-
            ed><background>false</background>
         </item>
      </control_list>
   </Controls>
</Cockpit>
```

3.2 Hide Menu Item

Example

In this example, the menu item display will be hidden. If you do not need one or more standard menu items you can hide it as follows:

1. Create a file with the name „user.xml“ with your favorite editor (e.g. „Notepad“) or open a already existing file.

Create this basic structure, if not already present:

```
<?xml version="1.0" encoding="UTF-8" ?>
<Cockpit>
   <!-- The Main Programm -->
   <Main>
   </Main>
   <!-- List of Controls -->
   <Controls>
      <control_list>
      </control_list>
   </Controls>
</Cockpit>
```

2. Expand the XML file within the **control_list** tag.

```
<item>
   <name>Display_Settings</name>
   <label></label>
   <icon></icon>
   <control></control>
   <backgroundImage></backgroundImage>
   <passwordProtected></passwordProtected>
   <background></background>
</item>
```

3. Open your FTP program or the Windows Explorer and enter the ip address of the operating device (example: ftp://149.208.160.232).
4. Copy the file „user.xml“ with the FTP program into the root directory of the operating device.

5. Start the cockpit.

Source code

The complete source code of the example should now look like this:

```
<?xml version="1.0" encoding="UTF-8" ?>
<Cockpit>
   <!-- List of Controls -->
   <Controls>
      <control_list>
         <item>
            <name>Display_Settings</name><label></label>          <icon></
            icon><control></control><backgroundImage></backgroundIm-
            age><passwordProtected></passwordProtected><background></back-
            ground>
         </item>
      </control_list>
   </Controls>
</Cockpit>
```

3.3 XML Elements

The following XML tags are possible within the Main tag:

Table 3-1 Main XML tags

XML tag	Function

`<backgroundImage>`
`\myPath\myBackground.png`
`</backgroundImage>`
	Background image for the cockpit window. Background images can be defined as needed separately for each control: You define the backgroundImage tag within the control for this purpose.

`<button_left>`
`myLeftButton.png`
`</button_left>`
	Image for left navigation button.

`<button_right>`
`myRightButton.png`
`</button_right>`
	Image for right navigation button.

`<button_exit>`
`myExitButton.png`
`</button_exit>`
	Image for ending the cockpit.

`<button_enter>`
`myEnterButton.png`
`</button_enter>`
	Image for starting the cockpit.

`<password>`
`12345`
`</password>`
	Default password.
	This value is used if the password has not been configured in the cockpit or the registry was restored.

`<passwordIcon>`
`myPasswordIcon.png`
`</passwordIcon>`
	Image for the password prompt dialog.

`<background>`
`true`
`</background>`
	The desktop in the background of the cockpit can be shown visible (false) or gray (true). If the value is true, a gray background appears.

The following XML tags are possible within the control_list tag:

Table 3-2 Controls XML tags

XML tag	Function
<name> myControl </name>	Name of the Control. See table 3-3 „Names of the controls“.
<label> My Control Name </label>	Display name of the control.
<icon> myControlButton.png </icon>	Image for control.
<control> \myPath\myControl.dll </control>	Path to DLL of the control. The default controls are located in the windows directory.
<backgroundmage> \myPath\myBackground.png </backgroundImage>	Background image for control window. The background image can also be defined overall the cockpit if necessary: Define the backgroundImage tag within the Main tag for this purpose.
<passwordProtected> true </passwordProtected>	Enable (true) or disable (false) password protection for control by default. This value is used if the password protection has not been configured in the cockpit or the registry was restored.
<passwordIcon> myPasswordIcon.png </passwordIcon>	Image for the password prompt dialog.
<background> false </background>	The desktop in the background of the cockpit can be shown visible (false) or gray (true) at a control. If the value is true, a gray background appears.

Standard controls can be configured under the following name:

Table 3-3 Names of the controls

Menu item	XML name
Display	Display_Settings
File Manager	FileManager
Language Selection	Language
FTP	FTPSettings
Date and Time	DateTime
Administration	Admin
Network	Network_Settings
Password	PasswordSetup
Update	Update

3.4 Custom Controls

The cockpit allows you to integrate your own controls. These can be programmed in Microsoft Visual Studio. A similar template for Visual Studio 2008 is available. Please contact us for further information.

SÜTRON electronic GmbH
Kurze Straße 29
D-70794 Filderstadt
Tel: 0049 711 / 77098-0
Fax: 0049 711 / 77098-305
E-Mail: doku@suetron.de
Internet: www.suetron.de